

# PIONEERING THE FUTURE



## **OOA - DRY FIBER**

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## Dry Fiber for Out-of-Autoclave Leading the way in cost-effective OOA composites

As the composites market pursues automated processes for high-rate production, Porcher Industries' dry fiber offers a new way of processing materials Out-of-Autoclave (OOA).

Porcher Industries Dry Fiber is a versatile range of carbon fiber functionalized with a binder interface. Optimised for AFP-made preforms for thermoset resin infusion or injection, Dry Fibers provide similar component properties to conventional prepreg stacking.

## A VERSATILITY IN MATERIAL DRIVING TO COALESCENCE BETWEEN PERFORMANCE AND EFFICIENCY



#### Outstanding features for exclusive benefits: **Excellent AFP processing** Fast and without €/\$ clogging machinery High resin permeability **OOA** processing for faster LRI and RTM processes Reduces cycle times and capex Optimized process Good epoxy Fibers and binders are resin compatibility, tailored to your requirements even with TP binder 100% continuous fiber Longer shelf life than No splice allowing optimized part design thermoset prepregs 2-3 years Highly conformable tow Consistent binder application with easy steering that reduces machine in high curvatures downtime due to fiber fuzz No paper or film interleave, No cold reducing waste and fuzz storage required in AFP processing



#### One-Step-Processing for Versatility and Cost Efficiency

Porcher Industries Dry Fiber technology uses a costeffective one-step-process to impregnate the fiber. Dry Fiber can be produced in flat calibrated width for AFP or rounder non-calibrated formats for winding, with a variety of different fiber aerial weights, binder chemistries and binder rates available on request.



| Binder Chemistry                          | High Speed<br>AFP | T°C<br>resistance | Mechanical properties |
|---|-------------------|-------------------|-----------------------|
| Thermoset (TS)                            | *                 | ***               | **                    |
| Thermoplastic (TP)                        | **                | **                | ***                   |
| Thermoplastic high processability (TP HP) | ***               | *                 | ***                   |
| Thermoplastic high T°C (TP HT)            | *                 | ***               | **                    |

Available in carbon 12K/24K - HS/IM FAW 126 or 262 g/m<sup>2</sup> - Width 1/4"

Porcher Industries Dry Fiber has been independently tested and recommended for its industry leading performance in AFP and resin impregnation processes.



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